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APR 2 2003

TECH CENT



OIPE

#18

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003

TIME: 13:16:50

Input Set : N:\AMC\I904923b.raw

Output Set: N:\CRF4\04152003\I904923B.raw

1 <110> APPLICANT: Novartis AG  
 2 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellular  
 3       r matrix components  
 4 <130> FILE REFERENCE: 4-30246a/GTI  
**C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/904,923B**  
 6 <141> CURRENT FILING DATE: 2001-07-13  
 7 <160> NUMBER OF SEQ ID NOS: 3  
 8 <170> SOFTWARE: Patentln version 3.1  
 10 <210> SEQ ID NO: 1  
 11 <211> LENGTH: 229  
 12 <212> TYPE: PRT  
 13 <213> ORGANISM: Moloney murine leukemia virus  
 14 <400> SEQUENCE: 1  
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 17 Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His  
 18        20              25              30  
 19 Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu  
 20        35              40              45  
 21 Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe  
 22        50              55              60  
 23 Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly  
 24        65              70              75              80  
 25 Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys  
 26        85              90              95  
 27 Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser  
 28        100             105             110  
 29 Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser  
 30        115             120             125  
 31 Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys  
 32        130             135             140  
 33 Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Trp Asp Phe  
 34        145             150             155             160  
 35 Ile Thr Val Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys  
 36        165             170             175  
 37 Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala  
 38        180             185             190  
 39 Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg  
 40        195             200             205  
 41 Leu Tyr Val Ser Gly Gln Asp Pro Gly leu Thr Phe Gly Ile Arg Leu  
 42        210             215             220  
 43 Arg Tyr Gln Asn Leu  
 44        225

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003

TIME: 13:16:50

Input Set : N:\AMC\I904923b.raw  
 Output Set: N:\CRF4\04152003\I904923B.raw

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46 <210> SEQ ID NO: 2
47 <211> LENGTH: 687
48 <212> TYPE: DNA
49 <213> ORGANISM: Moloney murine leukemia virus
50 <400> SEQUENCE: 2
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53     cttaccccccag atttatgtat gtagccccac catggaccat ctattgggg gctagaatat 180
54     caatccccctt tttcttctcc cccggggccc ccttggct cagggggcag cagccaggc 240
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56     aacagactca agctagacca gacaactcat aaatcaaattg agggatttta tggttgcccc 360
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58     tattggggct gtgagacaac cggttagatct tactggaaagg cctcctcattc atgggatttc 480
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64 <210> SEQ ID NO: 3
65 <211> LENGTH: 10
66 <212> TYPE: PRT
67 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
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70 <220> FEATURE:
71 <221> NAME/KEY: BINDING
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75     Trp Arg Glu Pro Ser Phe Met Ala Leu Ser
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003  
TIME: 13:16:51

Input Set : N:\AMC\I904923b.raw  
Output Set: N:\CRF4\04152003\I904923B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/904,923B

DATE: 04/15/2003

TIME: 13:16:51

Input Set : N:\AMC\I904923b.raw

Output Set: N:\CRF4\04152003\I904923B.raw

L:5 M:270 C: Current Application Number differs, Wrong Format

L:74 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3, Line#:0



OIPE

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:15

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I904923B.raw

3 <110> APPLICANT: Novartis AG  
 5 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellular  
 matrix  
 6 components  
 8 <130> FILE REFERENCE: 271010-463  
 10 <140> CURRENT APPLICATION NUMBER: US 09/904,923B  
 11 <141> CURRENT FILING DATE: 2001-07-13  
 14 <160> NUMBER OF SEQ ID NOS: 3  
 16 <170> SOFTWARE: PatentIn version 3.1  
**W--> 17 <210> SEQ ID NO: 1**  
 18 <211> LENGTH: 229  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Moloney murine leukemia virus  
 22 <400> SEQUENCE: 1  
 24 Ala Ser Pro Gly Ser Ser Pro His Gln Val Tyr Asn Ile Thr Trp Glu  
 25 1 5 10 15  
 28 Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His  
 29 20 25 30  
 32 Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu  
 33 35 40 45  
 36 Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe  
 37 50 55 60  
 40 Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly  
 41 65 70 75 80  
 45 Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys  
 46 85 90 95  
 49 Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser  
 50 100 105 110  
 53 Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser  
 54 115 120 125  
 56 Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys  
 57 130 135 140  
 59 Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Ser Trp Asp Phe  
 60 145 150 155 160  
 62 Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys  
 63 165 170 175  
 65 Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala  
 66 180 185 190  
 68 Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg  
 69 195 200 205  
 71 Leu Tyr Val Ser Gly Gln Asp Pro Gly Leu Thr Phe Gly Ile Arg Leu  
 72 210 215 220  
 74 Arg Tyr Gln Asn Leu  
 75 225

Does Not Comply  
Corrected Diskette Needed

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:15

Input Set : A:\EP.txt  
Output Set: N:\CRF4\04142003\I904923B.raw

78 <210> SEQ ID NO: 2  
79 <211> LENGTH: 687  
80 <212> TYPE: DNA  
83 <213> ORGANISM: Moloney murine leukemia virus  
86 <400> SEQUENCE: 2  
87 gcttcggccg gctccagttc tcatcaagtc tataatatac cctgggaggt aaccaatgg 60  
89 gatcgggaga cggtatgggc aacttctggc aaccaccctc tggacactg gtggcctgac 120  
91 cttacccccc agtttatgtat gtttagccac catggaccat cttattgggg gctagaatat 180  
93 caatccccctt tttttctcc cccggggccc ccttggtgt cagggggcag cagccaggc 240  
95 tggccagag actgcgaaga accttaacc tccctcaccc ctcggtgcaa cactgcctgg 300  
97 aacagactca agctagacca gacaactcat aaatcaaata agggatttt tgttgcccc 360  
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105 tggtgcaacc ccttagttat tcggtttaca gacggccggga gacgggttac ttccctggacc 600  
107 acaggacatt actggggctt acgtttgtat gtctccggac aagatccagg gcttacattt 660  
109 gggatccgac tcagatacca aaatcta 687  
112 <210> SEQ ID NO: 3  
113 <211> LENGTH: 10  
114 <212> TYPE: PRT  
117 <213> ORGANISM: Artificial Sequence  
119 <220> FEATURE:  
120 <223> OTHER INFORMATION: collagen-binding domain of von Willebrand Factor  
122 <400> SEQUENCE: 3  
124 Trp Arg Glu Pro Ser Phe Met Ala Leu Ser  
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129 #153407v1  
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/904,923B

DATE: 04/14/2003

TIME: 08:50:16

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I904923B.raw

L:17 M:283 W: Missing Blank Line separator, <210> field identifier